## Climate Zone 1a

Envelope Component			Fenestration Window-Wall			ım Fenestratio 25% Window-Wal			Fenestration 0% Window-Wa			High Fenestrati %-50% Window-Wa	
Malle (e)		No Framing or	Metal Framing	Wood or Framing	No Framing	Metal or Framing o	Wood or Framing	No Framing o	Metal or Framing	Wood or Framing	No Framing	Metal or Framing	Wood or Framing
Walls (a) Framed	Minimum R-Value	NA NA	0	or Framing	NA	or Framing o	or Framing 0	NA NA	or Framing O	or Framing 0	NA	or Framing 0	or Framing
Any Spacing	wii iii ii	NA.	Ū	· I	NA	Ü	· I	IVA	·	۰	I IVA	v	v
CMU, 8 in. or greater with Integral Insulation(b)	Minimum R-Value	0	0	0	0	0	0	0	0	0	0	0	0
All Other	Minimum R-Value	0	0	0	0	0	0	0	0	0	0	0	0
Masonry Walls(c)													
Windows		No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection
Maximum Solar	Heat Gain Coefficient	Any	Any	Any	0.6	0.7	Any	0.4	0.5	0.6	0.3	0.4	0.5
	Maximum U-Factor	Any	Any	Any	Any	Any	Any	0.7	0.7	0.7	0.7	0.7	0.7
		,	,	,	,	,	,			•		•	
Skylight (Limit 3% of Roof Are	ea)												
	Maximum U-Factor		1			1			1			1	
		Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity
Roof		Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss	Minimum R-Value	11		13	14		19	16		19	16		19
Nonwood Joist/Truss	Minimum R-Value	12		13	15		19	17		25	17		25
Concrete Slab or Deck	Minimum R-Value	11		NA	14		NA	16		NA	16		NA
Metal Purlin with Thermal Break	wiiriiiriurii K-vaiue	- "		INA	14			- 10		INA	10		INA
Metal Purlin without Thermal Break	Minimum R-Value	12		19	15		25	17		25	17		25
ivetai Furiin Without Thermal Break	Minimum R-Value	12		30	15		х	17		х	17		30
Floor		Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation
All-Wood Joist/Truss	Minimum R-Value	0		0	0		0	0		0	0		0
Nonwood Joist/Truss		-		-				-					
Concrete Slab or Deck	Minimum R-Value	0		0	0		0	0		0	0		0
	Minimum R-Value	0		NA	0		NA	0		NA	0		NA
Slab Edge or Basement Walls			Insulation			Insulation			Insulation			Insulation	
	Minimum R-Value		0			0			0			0	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material.
- (c) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more, lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>

- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## **Climate Zone 1b**

Envelope Component		Fenestration 6 Window-Wall			ım Fenestratio 25% Window-Wal			Fenestration			High Fenestrati -50% Window-Wa	
Malla (a)	No Framing	Metal	Wood or Framing	No Framing o	Metal	Wood or Framing	No	Metal	Wood or Framing	No	Metal or Framing	Wood
Walls (a) Framed Minimum R-Value	Framing of NA	r Framing 0	or Framing 0	NA NA	or Framing o	or Framing 0	Framing o	or Framing o	or Framing 0	Framing NA	or Framing 0	or Framing 0
Any Spacing		•	-			-			-			•
CMU, 8 in. or greater Minimum R-Value with Integral Insulation(b)	0	0	0	0	0	0	0	0	0	0	0	0
All Other Minimum R-Value Masonry Walls(c)	0	0	0	0	0	0	0	0	0	0	0	0
wasoniy wans(c)												
Windows	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection
Maximum Solar Heat Gain Coefficient	,	•	,	•	•	-	-	•	•	•		-
Maximum U-Factor	Any	Any	Any	0.6	0.7	Any	0.5	0.6	0.7	0.4	0.5	0.7
iviaximum 0-1 actor	Any	Any	Any	Any	Any	Any	0.7	0.7	0.7	0.7	0.7	0.7
Skylight (Limit 3% of Roof Area)												
Maximum U-Factor		1			1			1			1	
	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity
Roof	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss Minimum R-Value	14		19	14		19	14		19	14		19
Nonwood Joist/Truss Minimum R-Value	15		19	15		19	15		19	15		19
Concrete Slab or Deck						-			-			-
Minimum R-Value  Metal Purlin with Thermal Break	14		NA	14		NA	14		NA	14		NA
Minimum R-Value	15		25	15		25	15		25	15		25
Metal Purlin without Thermal Break Minimum R-Value	15		х	15		х	15		х	15		30
	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity
Floor	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss Minimum R-Value	0		0	0		0	0		0	0		0
Nonwood Joist/Truss Minimum R-Value	0		0	0		0	0		0	0		0
Concrete Slab or Deck			-			-			-	0		-
Minimum R-Value	0		NA	0		NA	0		NA			NA
Slab Edge or Basement Walls		Insulation			Insulation			Insulation			Insulation	
Minimum R-Value		0			0			0			0	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material.
- (c) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>

- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## Climate Zone 2a

Envelope Component			Fenestration 6 Window-Wall			m Fenestratio			Fenestration			High Fenestrati 6-50% Window-Wa	
, ,		No	Metal	Wood	No	Metal	Wood	No	Metal	Wood	No	Metal	Wood
Walls (a) Framed	Minimum R-Value	Framing of NA	r Framing 0	or Framing 0	Framing o	or Framing o	or Framing 0	Framing o	or Framing o	or Framing 0	Framing NA	or Framing	or Framing
Any Spacing	iviiriiinum K-vaiue	NA.	U	° I	NA.	U	۰	NA.	Ū	۰	NA.	,	,
CMU, 8 in. or greater with Integral Insulation(b)	Minimum R-Value	0	0	0	0	0	0	0	0	0	0	0	0
All Other Masonry Walls(c)	Minimum R-Value	0	0	0	0	0	0	0	0	0	0	0	0
Windows		No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection
Windows  Maximum Solar I	Heat Gain Coefficient	Trojection	i rojection	1 TOJECTION	Trojection	riojection	riojection	Trojection	riojection	1 TOJECTION	Trojection	rrojection	Trojection
		Any	Any	Any	0.5	0.6	0.7	0.4	0.5	0.6	0.4	0.5	0.6
	Maximum U-Factor	Any	Any	Any	Any	Any	Any	0.7	0.7	0.7	0.7	0.7	0.7
Skylight (Limit 3% of Roof Are	ea)												
,	Maximum U-Factor		1			1			1			1	
		Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity
Roof		Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss	Minimum R-Value	13		19	13		19	13		19	13		19
Nonwood Joist/Truss	Minimum R-Value	14		19	14		19	14		19	14		19
Concrete Slab or Deck	Minimum R-Value	13		NA	13		NA	13		NA	13		NA
Metal Purlin with Thermal Break	Minimum R-Value	14		19	14		19	14		19	14		19
Metal Purlin without Thermal Break		14		x	14		х	14		х	14		25
	William IV Value	-					-						
Floor		Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation
All-Wood Joist/Truss	Minimum R-Value	0		0	0		0	0		0	0		0
Nonwood Joist/Truss	Minimum R-Value	4		11	4		11	4		11	4		11
Concrete Slab or Deck	Minimum R-Value	0		NA NA	0		NA NA	0		NA NA	0		NA NA
					,								
Slab Edge or Basement Walls			Insulation			Insulation			Insulation			Insulation	
	Minimum R-Value		0			0			0			0	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material.
- (c) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more, lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>

- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## Climate Zone 2b

Envelope Component		.ow Fenestratio			ium Fenestrati %-25% Window-Wa			n Fenestratio			High Fenestrat %-50% Window-Wa	
Malla (a)	No Freming	Metal	Wood	No	Metal or Framing	Wood	No	Metal	Wood	No	Metal	Wood
Walls (a) Framed Minimum R	Value NA	or Framing	or Framing 0	Framing NA	or Framing 0	or Framing 0	Framing NA	or Framing 11	or Framing	Framing	or Framing	or Framing
Any Spacing	value INA	Ū	٠	INA	Ū	٠	NA.	•••		NA.		
CMU, 8 in. or greater Minimum R	Value 0	0	0	0	0	0	0	0	0	0	0	0
with Integral Insulation(b)  All Other Minimum R	Value 0	0	0	0	0	0	5	11	11	5	11	11
Masonry Walls(c)	value 0	U	U	l "	U	0	3	111	11	5	11	11
	No	3.25	³.5	No	³.25	³.5	No	³.25	³.5	No	s.25	3.5
Windows	Projection			Projection	Projection	Projection	Projection	Projection	Projection	Projection		Projection
Maximum Solar Heat Gain Coe	icient											
Maximum U-	Any	Any	Any	0.5	0.6	0.7	0.5	0.6	0.7	0.4	0.5	0.7
Maximum o-	Any	Any	Any	Any	Any	Any	0.7	0.7	0.7	0.7	0.7	0.7
Skylight (Limit 3% of Roof Area)												
Maximum U-	actor	1			1			1			1	
	Continuou	IS.	Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity
Roof	Insulation		Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation		Insulation
All-Wood Joist/Truss  Minimum R	Value 16		19	16		19	16		19	16		19
Nonwood Joist/Truss							- 10			- "		
Minimum R	Value 17		25	17		25	17		25	17		25
Concrete Slab or Deck Minimum R	Value 16		NA	16		NA	16		NA	16		NA
Metal Purlin with Thermal Break												
Minimum R Metal Purlin without Thermal Break	Value 17		25	17		25	17		25	17		25
Minimum R	Value 17		х	17		х	17		х	17		30
Floor	Continuou Insulation		Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation		Cavity Insulation
All-Wood Joist/Truss	$\neg -$											
Minimum R	Value 4		11	4		11	4		11	4		11
Nonwood Joist/Truss  Minimum R	Value 4		11	4		11	4		11	4		11
Concrete Slab or Deck Minimum R			NA	1		NA	1		NA	1		NA
Slab Edge or Basement Walls		Insulation			Insulation			Insulation			Insulation	
Minimum R	Value	0			0			0			0	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material.
- (c) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more, lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>

- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## Climate Zone 3a

Envelope Component	(0-10%	Fenestration 6 Window-Wall			ım Fenestratio 25% Window-Wal			Fenestration			High Fenestrat 6-50% Window-Wa	
	No .	Metal	Wood	No .	Metal	Wood	No .	Metal	Wood	No .	Metal	Wood
Walls (a)	Framing or		or Framing		ū	or Framing			or Framing	Framing		or Framing
Framed Minimum R-Value	NA	0	0	NA	0	0	NA	11	11	NA	11	11
Any Spacing CMU, 8 in. or greater  Minimum R-Value	0	0	0	0	0	0	0	0	0	0	0	0
with Integral Insulation(b)	1 "	U	· ·	1 "	U	· ·		U	Ü		U	U
All Other Minimum R-Value	0	0	0	0	0	0	0	0	0	0	0	0
Masonry Walls(c)		•			·	· ·		•	· ·	· ·	·	·
	No	3.25	3.5	No	3.25	3.5	No	3.25	3.5	No	3.25	3.5
Windows	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection
Maximum Solar Heat Gain Coefficient										1		
Maximum U-Factor	Any	Any	Any	0.6	0.7	Any	0.5	0.6	0.7	0.4	0.5	0.7
Maximum U-Factor	Any	Any	Any	Any	Any	Any	0.7	0.7	0.7	0.7	0.7	0.7
	Ally	Ally	Ally	Ally	Ally	Ally	0.7	0.7	0.7	0.7	0.7	0.7
Skylight (Limit 3% of Roof Area)												
Maximum U-Factor		1			1			1			1	
	<u> </u>			<u> </u>								
Roof	Continuous Insulation	or	Roof Cavity Insulation	Continuous Insulation	or	Roof Cavity Insulation	Continuous Insulation	or	Roof Cavity Insulation	Continuous Insulation	or	Roof Cavity Insulation
All-Wood Joist/Truss												
Minimum R-Value	9		11	12		19	12		19	12		19
Nonwood Joist/Truss												
Minimum R-Value	10		11	13		19	13		19	13		19
Concrete Slab or Deck Minimum R-Value	9		NA	12		NA	12		NA	12		NA
Metal Purlin with Thermal Break	9		NA NA	12		NA .	12		NA .	12		NA NA
Minimum R-Value	10		13	13		19	13		19	13		19
Metal Purlin without Thermal Break												
Minimum R-Value	10		25	13		30	13		30	13		30
	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity
Floor	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss	ilisulation	OI .	msulation	Ilisulation	OI .	msulation	msulation	OI .	msulation	msulation	OI .	msulation
All-wood Joist/Truss Minimum R-Value	4		11	4		11	4		11	4		11
Nonwood Joist/Truss	-		- ''			- ''			.,			
Minimum R-Value	4		11	4		11	4		11	4		11
Concrete Slab or Deck												
Minimum R-Value	2		NA	2		NA	2		NA	2		NA
Slab Edge or Basement Walls		Insulation			Insulation			Insulation			Insulation	
Minimum R-Value		0			0			0			0	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material.
- (c) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more, lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>

- "NA" indicates the category is not applicable.
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- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## **Climate Zone 3b**

No   Metal   Wood   Framing or Framing   Framing or Framing   Framing or Framing or Framing   Framing or Fra
NA
Any
CMU, sin. or greater
Windows   No
No
Masonry Walls(c)   No
Windows  Maximum Solar Heat Gain Coefficient Any
Projection   Pro
Any
Any
Maximum U-Factor
Any
Skylight (Limit 3% of Roof Area)    The state of Roof Area
Roof All-Wood Joist/Truss Minimum R-Value Metal Purlin without Thermal Break Minimum R-Value  Continuous 12  NA 13  19  10  10  10  10  10  10  10  10  10
Roof Roof All-Wood Joist/Truss Minimum R-Value Nonwood Joist/Truss Minimum R-Value Nonwood Joist/Truss Minimum R-Value 12 19 12 19 12 19 12 19 12 19 12 19 12 19 12 19 13 19 10 13 19 10 13 19 10 13 19 10 13 19 10 13 19 10 13 19 10 13 19 10 13 19 10 10 10 10 10 10 10 10 10 10 10 10 10
Roof Roof All-Wood Joist/Truss Minimum R-Value Nonwood Joist/Truss Minimum R-Value Nonwood Joist/Truss Minimum R-Value 12 19 12 19 12 19 12 19 12 19 12 19 12 19 12 19 13 19 10 13 19 10 13 19 10 13 19 10 13 19 10 13 19 10 13 19 10 13 19 10 13 19 10 10 10 10 10 10 10 10 10 10 10 10 10
Roof All-Wood Joist/Truss  Minimum R-Value Nonwood Joist/Truss  Minimum R-Value 12 19 13 19 13 13 19 13 13 19 13 13 19 13 13 19 13 13 19 13 13 19 13 13 19 1
Roof All-Wood Joist/Truss  Minimum R-Value Nonwood Joist/Truss  Minimum R-Value 12 19 13 19 13 13 19 13 13 19 13 13 19 13 13 19 13 13 19 13 13 19 13 13 19 1
All-Wood Joist/Truss    Minimum R-Value   12   19   12   19   12   19   12   19   13
Minimum R-Value   12   19   12   19   12   19   12   19   12   19   13   1
Nonwood Joist/Truss    Minimum R-Value   13   19   13
Concrete Slab or Deck  Minimum R-Value Metal Purlin with Thermal Break Minimum R-Value Metal Purlin without Thermal Break Minimum R-Value  Motal Purlin without Thermal Break Minimum R-Value  12  NA  12  NA  12  NA  12  NA  12  NA  12  NA  13  19  13  13
Metal Purlin with Thermal Break Minimum R-Value Metal Purlin without Thermal Break Minimum R-Value  Metal Purlin without Thermal Break Minimum R-Value  12  NA  13  19  13  19  13  19  13  19  13  19  13  19  13  19  13  19  13  19  13  19  13  19  13  19  13  19  10  10  10  10  10  10  10  10  10
Metal Purlin with Thermal Break Minimum R-Value  13 19 13 13 19 13 19 13 19 13 19 13 19 13 19 13 19 13 19 13 19 13 19 13 19 13 13 19 13 13 19 13 19 13 19 13 19 13 19 13 19 13 19 13 19 13 19 13 19 13 19 13 13 19 13 18 19 13 19 13 19 13 19 13 19 13 19 13 19 13 19 13 19 13 19 13 19 13 18 19 13 18 19 13 19 13 18 19 18 18 18 18 18 18 18 18 18 18 18 18 18
Minimum R-Value Metal Purlin without Thermal Break Minimum R-Value  13 19 15 19 16 19 17 19 18 19 18 19 1
Metal Purlin without Thermal Break  Minimum R-Value  13 30 13 30 13 30 13 30  Continuous Cavity Insulation or Insulation Insulation or Insulation I
Minimum R-Value 13 30 13
Continuous Cavity Floor All-Wood Joist/Truss  Continuous Cavity Insulation or Insulation or Insulation  Continuous Cavity Insulation or Insulation or Insulation  Continuous Cavity Insulation or Insu
Floor Insulation or Insulation Insulation or Insulation or Insulation or Insulation or Insulation or Insulation or Insulation Insulation or Insulation Insulation or Insulation
All-Wood Joist/Truss
Minimum R-Value
Nonwood Joist/Truss
Minimum R-Value         4         11         4
Minimum R-Value 2 NA 2 NA 2 NA 2 NA
Slab Edge or Basement Walls Insulation Insulation Insulation Insulation
Slab Edge or Basement Walls Insulation Insulation Insulation

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material.
- (c) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more, lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>

- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## Climate Zone 3c

Envelope Component		Fenestration Window-Wall			ım Fenestratio			Fenestration			High Fenestrat %-50% Window-Wa	
	No	Metal	Wood	No	Metal	Wood	No	Metal	Wood	No	Metal	Wood
Walls (a)	Framing or	Framing	or Framing	Framing 6	-	or Framing	Framing o	or Framing	or Framing	Framing	or Framing	or Framing
Framed Minimum R-Value Any Spacing	NA	0	0	NA	11	0	NA	11	11	NA	11	11
CMU, 8 in. or greater Minimum R-Value with Integral Insulation(b)	0	0	0	0	0	0	0	0	0	0	0	0
All Other Minimum R-Value Masonry Walls(c)	0	0	0	0	0	0	5	11	11	5	11	11
Windows	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection
Maximum Solar Heat Gain Coefficient	Any	Any	Any	0.5	0.6	0.7	0.4	0.5	0.6	0.4	0.5	0.6
Maximum U-Factor	Any	Any	Any	Any	Any	Any	0.7	0.7	0.7	0.7	0.7	0.7
Skylight (Limit 3% of Roof Area)												
Maximum U-Factor		1			1			1			1	
Roof	Continuous Insulation	or	Roof Cavity Insulation	Continuous Insulation	or	Roof Cavity Insulation	Continuous Insulation	or	Roof Cavity Insulation	Continuous Insulation	or	Roof Cavity Insulation
All-Wood Joist/Truss	Ilisulation	OI .	msulation	insulation	OI .	insulation	insulation	OI .	ilisulation	ilisulation	OI .	IIISUIALIOII
Minimum R-Value	16		19	19		25	19		25	19		25
Nonwood Joist/Truss Minimum R-Value	17		25	20		25	20		25	20		25
Concrete Slab or Deck Minimum R-Value	16		NA	19		NA	19		NA	19		NA
Metal Purlin with Thermal Break Minimum R-Value	17		25	20		30	20		30	20		30
Metal Purlin without Thermal Break Minimum R-Value	17		х	20		х	20		х	20		38
Floor	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation
All-Wood Joist/Truss Minimum R-Value	4		11	4		11	4		11	4		11
Nonwood Joist/Truss Minimum R-Value	4		11	4		11	4		11	4		11
Concrete Slab or Deck Minimum R-Value	2		NA	2		NA	2		NA	2		NA
Slab Edge or Basement Walls		Insulation			Insulation			Insulation			Insulation	
Minimum R-Value		0			0			0			0	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material.
- (c) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more, lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>

- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## Climate Zone 4a

Envelope Component			enestration Window-Wall			um Fenestratio 25% Window-Wal			Fenestration			High Fenestrati %-50% Window-Wa	
W-U- /->		No Framing or	Metal	Wood	No	Metal or Framing o	Wood	No	Metal	Wood	No	Metal	Wood
Walls (a) Framed	Minimum R-Value	Framing or NA	Framing 0	or Framing 0	Framing NA	or Framing of	or Framing	Framing o	or Framing	or Framing	Framing NA	or Framing	or Framing
Any Spacing	wiiriimum K-value	NA.	U	۰	NA.	• • • • • • • • • • • • • • • • • • • •	''	NA.			NA.		"
CMU, 8 in. or greater	Minimum R-Value	0	0	0	0	0	0	0	0	0	0	0	0
with Integral Insulation(b) All Other	Minimum R-Value	0	0	0	0	0	0	5	11	11	5	11	11
Masonry Walls(c)	Minimum R-value	"	U	۰	"	U	١	5	11	11	3	11	11
		No	3.25	3.5	No	3.25	³.5	No	³.25	³.5	No	3.25	3.5
Windows		Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection
Maximum Solar He	eat Gain Coefficient												
	Maximum U-Factor	Any	Any	Any	0.6	0.7	Any	0.5	0.6	0.7	0.4	0.5	0.7
	Maximum 0-Factor	Any	Any	Any	Any	Any	Any	0.7	0.7	0.7	0.7	0.7	0.7
Skylight (Limit 3% of Roof Area													
, , ,	Maximum U-Factor		1			1			1			1	
Roof		Continuous Insulation	or	Roof Cavity Insulation	Continuous Insulation	or	Roof Cavity Insulation	Continuous Insulation	or	Roof Cavity Insulation	Continuous Insulation	or	Roof Cavity Insulation
All-Wood Joist/Truss	Minimum R-Value	11		13	12		19	12		19	12		19
Nonwood Joist/Truss	wiriimum K-value			13	12		19	12		19	12		19
	Minimum R-Value	12		13	13		19	13		19	13		19
Concrete Slab or Deck	Minimum R-Value	11		NA	12		NA	12		NA	12		NA
Metal Purlin with Thermal Break													
Metal Purlin without Thermal Break	Minimum R-Value	12		19	13		19	13		19	13		19
inetal Fullin without Thermal Break	Minimum R-Value	12		30	13		30	13		30	13		30
Floor		Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous	or	Cavity Insulation
All-Wood Joist/Truss													
	Minimum R-Value	4		11	4		11	4		11	4		11
Nonwood Joist/Truss	Minimum R-Value	4		11	4		11	4		11	4		11
Concrete Slab or Deck	Minimum R-Value	3		NA NA	3		NA NA	3		NA NA	3		NA NA
Slab Edge or Basement Walls			Insulation			Insulation			Insulation			Insulation	
	Minimum R-Value		0			0			0			0	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material.
- (c) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more, lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>

- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## Climate Zone 4b

Envelope Component		Fenestration % Window-Wall			m Fenestratio			Fenestration			ligh Fenestrati -50% Window-Wa	
M-II- (- 1)	No Framing	Metal	Wood or Framing	No	Metal	Wood	No	Metal	Wood	No	Metal	Wood
Walls (a,b) Framed Minimum Cavity R-Value (c)	Framing o	or Framing	or Framing 11	Framing o	or Framing of	or Framing 11	Framing o	or Framing of	or Framing 11	Framing NA	or Framing	or Framing 11
Any Spacing Minimum Continuous R-Value (d)	NA	0	0	NA	0	0	NA	0	0	NA	3	0
CMU, 8 in. or greater Minimum Cavity R-Value	NA 0	0	0	NA 0	0	0	NA 0	0	0	NA	0	0
with Integral Insulation(e) Minimum Continuous R-Value All Other Minimum Cavity R-Value	0 NA	0	0	0 NA	0 11	0 11	0 NA	0 11	0 11	0 NA	0 11	0 11
Masonry Walls(f) Minimum Continuous R-Value	0	0	0	5	0	0	5	0	0	5	0	0
Windows	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection
Maximum Solar Heat Gain Coefficient	Any	Any	Any	0.6	0.7	Any	0.4	0.5	0.6	0.4	0.5	0.6
Maximum U-Factor	Any	Any	Any	Any	Any	Any	0.7	0.7	0.7	0.7	0.7	0.7
Skylight (Limit 3% of Roof Area)												
Maximum U-Factor		1			1			1			1	
	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity
Roof All-Wood Joist/Truss	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
Minimum R-Value	16		19	16		19	16		19	16		19
Nonwood Joist/Truss Minimum R-Value	17		25	17		25	17		25	17		25
Concrete Slab or Deck Minimum R-Value	16		NA	16		NA	16		NA	16		NA
Metal Purlin with Thermal Break Minimum R-Value	17		25	17		25	17		25	17		25
Metal Purlin without Thermal Break  Minimum R-Value	17		x	17		X	17		х	17		30
iviiniimum K-value	! !			-		-						
Floor	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation
All-Wood Joist/Truss Minimum R-Value	4		11	4		11	4		11	4		11
Nonwood Joist/Truss Minimum R-Value	4		11	4		11	4		11	4		11
Concrete Slab or Deck  Minimum R-Value	1		NA NA	4		NA NA	4		NA NA	4		NA NA
William IV Value			IVA	7		IUA			IVA			IVA
Slab Edge or Basement Walls		Insulation			Insulation			Insulation			Insulation	
Minimum R-Value		0			0			0			0	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Where values are shown for both cavity and continuous insulation, both requirements must be met.
- (c) Cavity insulation is insulation between framing members or furring strips and does not refer to integral insulation in CMUs.
- (d) Continuous insulation is insulation that is continuous across structural members, and its effectiveness is undimished by compression or bridging.
- (e) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (f) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>
- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## Climate Zone 5a

Envelope Component			Fenestration 6 Window-Wall			um Fenestratio -25% Window-Wa			Fenestration			High Fenestrat %-50% Window-Wa	
M/-II- /->		No Framing or	Metal Framing	Wood or Framing	No Framing	Metal or Framing	Wood or Framing	No Framing o	Metal or Framing	Wood or Framing	No Framing	Metal or Framing	Wood or Framing
Walls (a) Framed	Minimum R-Value	Framing or NA	Framing 11	or Framing	Praming NA	or Framing	or Framing	NA NA	or Framing 11	or Framing	NA	or Framing	or Framing
Any Spacing	wiiriiinum K-vaiue	NA.	"		NA.		"	NA.	""		INA		"
CMU, 8 in. or greater with Integral Insulation(b)	Minimum R-Value	0	0	0	0	0	0	0	0	0	0	0	0
All Other	Minimum R-Value	0	0	0	5	11	11	5	11	11	5	11	11
Masonry Walls(c)													
Windows		No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection
Maximum Sola	r Heat Gain Coefficient	Any	Any	Any	0.6	0.7	Any	0.5	0.6	0.7	0.4	0.5	0.7
	Maximum U-Factor	Any	Any	Any	Any	Any	Any	0.7	0.7	0.7	0.7	0.7	0.7
Skylight (Limit 3% of Roof A	raa)												
Skylight (Limit 3% of Roof A	Maximum U-Factor		1			1			1			1	
		Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity
Roof		Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss	Minimum R-Value	14		19	16		19	16		19	16		19
Nonwood Joist/Truss	Minimum R-Value	15		19	17		25	17		25	17		25
Concrete Slab or Deck	Minimum R-Value	14		NA	16		NA	16		NA	16		NA
Metal Purlin with Thermal Break	Minimum R-Value	15		25	17		25	17		25	17		25
Metal Purlin without Thermal Brea		15		x	17		x	17		х	17		30
	www.man.revalue	-			P			-			•		
Floor		Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation
All-Wood Joist/Truss	Minimum R-Value	5		11	5		11	5		11	5		11
Nonwood Joist/Truss	Minimum R-Value	6		11	6		11	6		11	6		11
Concrete Slab or Deck	Minimum R-Value	5		NA	5		NA	5		NA	5		NA
Old Edward Barrey			Insulation			Insulation			Insulation			Insulation	
Slab Edge or Basement Wall													
	Minimum R-Value		0			0			0			0	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material.
- (c) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more, lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>

- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## Climate Zone 5b

Envelope Component		Fenestration % Window-Wall			m Fenestration			Fenestration 0% Window-Wa			High Fenestrat %-50% Window-Wa	
	No	Metal	Wood	No	Metal	Wood	No	Metal	Wood	No	Metal	Wood
Walls (a,b) Framed Minimum Cavity R-Value (c)	Framing o		or Framing	Framing o		or Framing	Framing o	ū	or Framing	Framing NA	ū	or Framing 11
Any Spacing Minimum Continuous R-Value (d)	NA NA	11 0	0	NA NA	11 0	11 0	NA NA	11 0	0	NA NA	13 3	0
CMU, 8 in. or greater Minimum Cavity R-Value	NA	0	0	NA	11	11	NA	11	11	NA	11	11
with Integral Insulation(e) Minimum Continuous R-Value	0	0	0	5	0	0	5	0	0	5	0	0
All Other Minimum Cavity R-Value Masonry Walls(f) Minimum Continuous R-Value	NA 0	0 0	0	NA 5	11 0	11 0	NA 5	11 0	11 0	NA 5	11 0	11 0
masoniy wans(i)		_			-			•			-	
Windows	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection
Maximum Solar Heat Gain Coefficient	Any	Any	Any	0.6	0.7	Any	0.4	0.5	0.6	0.4	0.5	0.6
Maximum U-Factor	Any	Any	Any	Any	Any	Any	0.7	0.7	0.7	0.7	0.7	0.7
Skylight (Limit 3% of Roof Area)												
Maximum U-Factor		1			1			1			1	
	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity
Roof	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss Minimum R-Value	14		19	19		25	19		25	19		25
Nonwood Joist/Truss Minimum R-Value	15		19	20		25	20		25	20		25
Concrete Slab or Deck Minimum R-Value	14		NA	19		NA	19		NA	19		NA
Metal Purlin with Thermal Break Minimum R-Value	15		25	20		30	20		30	20		30
Metal Purlin without Thermal Break	13		23	20		30	20		30	20		30
Minimum R-Value	15		Х	20		Х	20		Х	20		38
Floor	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation
All-Wood Joist/Truss Minimum R-Value	5		11	5		11	5		11	5		11
Nonwood Joist/Truss  Minimum R-Value	6		11	6		11	6		11	6		11
Concrete Slab or Deck				-								
Minimum R-Value	5		NA	5		NA	5		NA	5		NA
Slab Edge or Basement Walls		Insulation			Insulation			Insulation			Insulation	
Minimum R-Value		0			0			0			0	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Where values are shown for both cavity and continuous insulation, both requirements must be met.
- (c) Cavity insulation is insulation between framing members or furring strips and does not refer to integral insulation in CMUs.
- (d) Continuous insulation is insulation that is continuous across structural members, and its effectiveness is undimished by compression or bridging.
- (e) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (f) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>
- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## Climate Zone 6a

Envelope Component		Fenestration % Window-Wall			m Fenestratio 5% Window-Wal			Fenestration			ligh Fenestrati -50% Window-Wa	
Malla (a la)	No Framing o	Metal r Framing	Wood or Framing	No Framing o	Metal or Framing o	Wood or Framing	No Framing o	Metal or Framing o	Wood or Framing	No Framing	Metal or Framing	Wood or Framing
Walls (a,b) Framed Minimum Cavity R-Value (c)	NA NA	11	or Framing 11	NA NA	11	or Framing	NA NA	or Framing C	or Framing 11	NA	13	or Framing 11
Any Spacing Minimum Continuous R-Value (d)	NA	0	0	NA	0	0	NA	0	0	NA	3	0
CMU, 8 in. or greater Minimum Cavity R-Value	NA	0	0	NA	0	0	NA	0	0	NA	0	0
with Integral Insulation(e) Minimum Continuous R-Value All Other Minimum Cavity R-Value	0 NA	0	0	0 NA	0 11	0 11	0 NA	0 11	0 11	0 NA	0 11	0 11
Masonry Walls(f) Minimum Continuous R-Value	0	0	0	5	0	0	5	0	0	5	0	0
	No	3.25	3.5	No	3.25	3.5	No	3.25	3.5	No	3.25	3.5
Windows	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection
Maximum Solar Heat Gain Coefficient	Any	Any	Any	0.7	Any	Any	0.5	0.6	0.7	0.4	0.5	0.7
Maximum U-Factor	Any	Any	Any	Any	Any	Any	0.7	0.7	0.7	0.7	0.7	0.7
Skylight (Limit 3% of Roof Area)												
Maximum U-Factor		0.8			0.8			0.8			0.8	
	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity
Roof	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss Minimum R-Value	10		11	19		25	19		25	19		25
Nonwood Joist/Truss  Minimum R-Value	11		13	20		25	20		25	20		25
Concrete Slab or Deck Minimum R-Value	10		NA	19		NA	19		NA	19		NA
Metal Purlin with Thermal Break												
Minimum R-Value  Metal Purlin without Thermal Break	11		19	20		30	20		30	20		30
Minimum R-Value	11		25	20		х	20		х	20		38
	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity
Floor	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss Minimum R-Value	7		11	7		11	7		11	7		11
Nonwood Joist/Truss  Minimum R-Value	8		11	8		11	8		11	8		11
Concrete Slab or Deck Minimum R-Value	7		NA	7		NA	7		NA	7		NA
Slab Edge or Basement Walls		Insulation			Insulation			Insulation			Insulation	
Minimum R-Value		0			0			0			0	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Where values are shown for both cavity and continuous insulation, both requirements must be met.
- (c) Cavity insulation is insulation between framing members or furring strips and does not refer to integral insulation in CMUs.
- (d) Continuous insulation is insulation that is continuous across structural members, and its effectiveness is undimished by compression or bridging.
- (e) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (f) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>
- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## Climate Zone 6b

Envelope Component	(0-10%	Fenestratior Window-Wall			ım Fenestratio 25% Window-Wal			Fenestration			High Fenestrat %-50% Window-Wa	
	No .	Metal	Wood	No .	Metal	Wood	No .	Metal	Wood	No	Metal	Wood
Walls (a)	Framing of	•	or Framing			or Framing			or Framing	Framing		or Framing
Framed Minimum R-Value	NA	11	11	NA	11	11	NA	11	11	NA	11	11
Any Spacing CMU, 8 in. or greater  Minimum R-Value	0	0	0	0	0	0	0	0	0	0	0	0
with Integral Insulation(b)	U	U	U	I "	U	U	U 0	U	U	"	U	U
All Other Minimum R-Value	0	0	0	5	11	11	5	11	11	5	11	11
Masonry Walls(c)	1 "	Ū	٠	1 3	•••		,			,	• • • • • • • • • • • • • • • • • • • •	
macomy mane(c)				<u> </u>			<u> </u>					
	No	3.25	3.5	No	3.25	3.5	No	3.25	3.5	No	³.25	3.5
Windows	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection
Maximum Solar Heat Gain Coefficient												
	Any	Any	Any	0.6	0.7	Any	0.5	0.6	0.7	0.4	0.5	0.7
Maximum U-Factor		_										
	Any	Any	Any	Any	Any	Any	0.7	0.7	0.7	0.7	0.7	0.7
Skylight (Limit 3% of Roof Area)												
,												
Maximum U-Factor		1			1			1			1	
	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity
Roof	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss												
Minimum R-Value	16		19	16		19	19		25	19		25
Nonwood Joist/Truss Minimum R-Value	17		25	17		25	20		25	20		25
Concrete Slab or Deck	- ''		25			25	20		25	20		25
Minimum R-Value	16		NA	16		NA	19		NA	19		NA
Metal Purlin with Thermal Break	- 10		IVA			TVA .			NA.	- 10		NA.
Minimum R-Value	17		25	17		25	20		30	20		30
Metal Purlin without Thermal Break												
Minimum R-Value	17		X	17		X	20		Х	20		38
	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity
Floor	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
	Ilisulation	OI .	msulation	Ilisulation	OI .	msulation	msulation	OI .	msulation	msulation	OI .	moulation
All-Wood Joist/Truss Minimum R-Value	6		11	6		11	6		11	6		11
Nonwood Joist/Truss	- 0		- ''	- 6		11	- 6		- ''	- 6		- 11
Minimum R-Value	6		11	6		11	6		11	6		11
Concrete Slab or Deck				_ <u> </u>								
Minimum R-Value	6		NA	6		NA	6		NA	6		NA
Slab Edge or Basement Walls		Insulation			Insulation			Insulation			Insulation	
Minimum R-Value		0			0			0			0	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material.
- (c) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more, lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>

- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## Climate Zone 7a

Envelope Component	(0-10%	Fenestratior 6 Window-Wall			um Fenestratio 25% Window-Wal			Fenestration			High Fenestra	
Walle (a)	No Framing or	Metal r Framing	Wood or Framing	No Framing	Metal or Framing o	Wood or Framing	No Framing o	Metal or Framing	Wood or Framing	No Framing	Metal or Framing	Wood or Framing
Walls (a)	_		_	ū	•	_					ū	
Framed Minimum R-Value Any Spacing	NA	11	11	NA	11	11	NA	11	11	NA	11	11
CMU, 8 in. or greater Minimum R-Value	0	0	0	0	0	0	5	11	11	5	11	11
with Integral Insulation(b)	•	v	٠	1 "	·	٠	ď	•••			• • • • • • • • • • • • • • • • • • • •	
All Other Minimum R-Value	5	11	11	5	11	11	5	11	11	5	11	11
Masonry Walls(c)		• • •			••			• •	• • •		• •	
	No	3.25	3.5	No	3.25	3.5	No	3.25	3.5	No	3.25	3.5
Windows	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection
Maximum Solar Heat Gain Coefficient												
	Any	Any	Any	0.5	0.6	0.7	0.4	0.5	0.6	0.3	0.4	0.5
Maximum U-Factor				0.7	0.7	0.7	0.7(d)	0.7(-1)	0.7(-1)	0.7	0.7	0.7
	Any	Any	Any	0.7	0.7	0.7	0.7(a)	0.7(d)	0.7(d)	0.7	0.7	0.7
Skylight (Limit 3% of Roof Area)												
Maximum U-Factor		0.8			0.8			0.8			0.8	
Maximum 0-Factor		0.8			0.6			0.6			0.6	
			- 12 1			- 10 1			- 12 1	- "		
	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity
Roof	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss												
Minimum R-Value Nonwood Joist/Truss	14		19	19		25	19		25	19		25
Minimum R-Value	15		19	20		25	20		25	20		25
Concrete Slab or Deck	15		19	20		25	20		25			25
Minimum R-Value	14		NA	19		NA	19		NA	19		NA
Metal Purlin with Thermal Break												
Minimum R-Value	15		25	20		30	20		30	20		30
Metal Purlin without Thermal Break												
Minimum R-Value	15		Х	20		Х	20		Х	20		38
	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity
Floor	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
	msulation	OI .	modiation	msulation	OI .	msulation	msulation	OI .	ilisulation	modiation	01	modiation
All-Wood Joist/Truss Minimum R-Value	8		11	8		11	8		11	8		11
Nonwood Joist/Truss	•			•			•			•		- 11
Minimum R-Value	9		11	9		11	9		11	9		11
Concrete Slab or Deck												
Minimum R-Value	8		NA	8		NA	8		NA	8		NA
Slab Edge or Basement Walls		Insulation			Insulation			Insulation			Insulation	
Minimum R-Value		0			0			0			0	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (c) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.
- (d) For buildings over 3 stories in height, the maximum U-factor shall be 0.60.

- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## Climate Zone 7b

Envelope Component		Fenestration % Window-Wall			ım Fenestratio 25% Window-Wal			Fenestration			High Fenestrati %-50% Window-Wa	
	No	Metal	Wood	No	Metal	Wood	No	Metal	Wood	No	Metal	Wood
Walls (a,b)	Framing o		or Framing		J	or Framing	Framing o	•	or Framing	Framing		or Framing
Framed Minimum Cavity R-Value (c)	NA NA	11	11 0	NA	11	11	NA	13	13	NA	13	13
Any Spacing Minimum Continuous R-Value (d)  CMU, 8 in. or greater Minimum Cavity R-Value	NA NA	0	0	NA NA	0 11	0 11	NA NA	0 11	0 11	NA NA	3 11	0 11
with Integral Insulation(e) Minimum Continuous R-Value	0	0	ő	5	0	0	5	0	0	5	0	0
All Other Minimum Cavity R-Value	NA NA	11	11	NA NA	11	11	NA NA	13	11	NA NA	13	11
Masonry Walls(f) Minimum Continuous R-Value	5	0	0	5	0	0	6	0	0	6	0	0
	No	3.25	3.5	No	3.25	3.5	No	3.25	3.5	No	3.25	<b>3</b> .5
Windows  Maximum Solar Heat Gain Coefficient	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection
	Any	Any	Any	0.5	0.6	0.7	0.4	0.5	0.6	0.3	0.4	0.5
Maximum U-Factor	Any	Any	Any	0.7	0.7	0.7	0.7(g)	0.7(g)	0.7(g)	0.7	0.7	0.7
Skylight (Limit 3% of Roof Area)												
Maximum U-Factor		0.8			0.8			0.8			0.8	
	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity
Roof	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss  Minimum R-Value	14		19	19		25	19		25	19		25
Nonwood Joist/Truss												
Minimum R-Value	15		19	20		25	20		25	20		25
Concrete Slab or Deck Minimum R-Value	14		NA	19		NA	19		NA	19		NA
Metal Purlin with Thermal Break	'		NA.	13		NA.	13		146	- 13		NA.
Minimum R-Value	15		25	20		30	20		30	20		30
Metal Purlin without Thermal Break  Minimum R-Value	15		x	20		х	20		х	20		38
	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity
Floor	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss Minimum R-Value	7		11	7		11	7		11	7		11
Nonwood Joist/Truss				-			-					
Minimum R-Value Concrete Slab or Deck	8		11	8		11	8		11	8		11
Minimum R-Value	8		NA	8		NA	8		NA	8		NA
Slab Edge or Basement Walls		Insulation			Insulation			Insulation			Insulation	
Minimum R-Value		0			0			0			0	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Where values are shown for both cavity and continuous insulation, both requirements must be met.
- (c) Cavity insulation is insulation between framing members or furring strips and does not refer to integral insulation in CMUs.
- (d) Continuous insulation is insulation that is continuous across structural members, and its effectiveness is undimished by compression or bridging.
- (e) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (f) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>
- (g) For buildings over 3 stories in height, the maximum U-factor shall be 0.60.
- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## **Climate Zone 8**

Envelope Component		Fenestratior			um Fenestratio			Fenestratior			High Fenestrat %-50% Window-Wa	
	No	Metal	Wood	No	Metal	Wood	No	Metal	Wood	No	Metal	Wood
Walls (a)	Framing or		or Framing		•	or Framing	Framing o		or Framing	Framing		or Framing
Framed Minimum R-Value Any Spacing	NA	11	11	NA	13	11	NA	13	11	NA	13	11
CMU, 8 in. or greater Minimum R-Value with Integral Insulation(b)	5	11	11	5	11	11	5	11	11	5	11	11
All Other Minimum R-Value Masonry Walls(c)	5	11	11	6	13	11	6	13	11	6	13	11
Windows	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection
Maximum Solar Heat Gain Coefficient	Any	Any	Any	0.5	0.6	0.7	0.4	0.5	0.6	0.3	0.4	0.5
Maximum U-Factor	Any	Any	Any	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.5
Skylight (Limit 3% of Roof Area)												
Maximum U-Factor		0.8			0.8			0.8			0.8	
Roof	Continuous Insulation	or	Roof Cavity Insulation	Continuous Insulation	or	Roof Cavity Insulation	Continuous Insulation	or	Roof Cavity Insulation	Continuous	or	Roof Cavity Insulation
All-Wood Joist/Truss												
Minimum R-Value	14		19	19		25	19		25	19		25
Nonwood Joist/Truss Minimum R-Value	15		19	20		25	20		25	20		25
Concrete Slab or Deck Minimum R-Value	14		NA	19		NA	19		NA	19		NA
Metal Purlin with Thermal Break  Minimum R-Value	15		25	20		30	20		30	20		30
Metal Purlin without Thermal Break Minimum R-Value	15		х	20		х	20		х	20		38
	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity
Floor	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss Minimum R-Value	9		11	9		11	9		11	9		11
Nonwood Joist/Truss  Minimum R-Value	10		11	10		11	10		11	10		11
Concrete Slab or Deck  Minimum R-Value	9		NA NA	9		NA NA	9		NA NA	9		NA NA
Slab Edge or Basement Walls		Insulation			Insulation			Insulation			Insulation	
Minimum R-Value												

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (c) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.

- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## Climate Zone 9a

Envelope Component		Fenestration % Window-Wall			ım Fenestratio 25% Window-Wal			Fenestration			High Fenestrati 6-50% Window-Wa	
	No	Metal	Wood	No	Metal	Wood	No	Metal	Wood	No	Metal	Wood
Walls (a,b)	Framing o		or Framing			or Framing	Framing o	•	or Framing	Framing		or Framing
Framed Minimum Cavity R-Value (c)	NA	11	11	NA	11	11	NA	13	11	NA	13	13
Any Spacing Minimum Continuous R-Value (d) CMU, 8 in. or greater Minimum Cavity R-Value	NA NA	0	0	NA NA	0 11	0 11	NA NA	0 11	0 11	NA NA	11 11	5 11
with Integral Insulation(e) Minimum Continuous R-Value	0	0	0	5	0	0	5 NA	0	0	5 5	0	0
All Other Minimum Cavity R-Value	NA NA	11	11	NA NA	11	11	NA NA	11	11	NA NA	11	11
Masonry Walls(f) Minimum Continuous R-Value	5	0	0	5	0	0	5	0	0	5	0	0
	No	3.25	3.5 Decisetion	No	3.25	3.5 Projection	No	3.25 Decided	S.5	No	3.25	3.5 Decisedian
Windows  Maximum Solar Heat Gain Coefficient	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection
	Any	Any	Any	Any	Any	Any	0.6	0.7	Any	0.5	0.7	0.8
Maximum U-Factor	Any	Any	Any	0.7	0.7	0.7	0.7(g)	0.7(g)	0.7(g)	0.5	0.5	0.5
Skylight (Limit 3% of Roof Area)												
Maximum U-Factor		0.8			0.8			0.8			0.8	
	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity
Roof	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss  Minimum R-Value	13		19	16		19	19		25	19		25
Nonwood Joist/Truss												
Minimum R-Value	14		19	17		25	20		25	20		25
Concrete Slab or Deck Minimum R-Value	13		NA	16		NA	19		NA	19		NA
Metal Purlin with Thermal Break	13		NA.	- 10		NA.	19		INA	13		NA.
Minimum R-Value	14		19	17		25	20		30	20		30
Metal Purlin without Thermal Break  Minimum R-Value	14		х	17		х	20		х	20		38
	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity
Floor	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss Minimum R-Value	12		13	12		13	12		13	12		13
Nonwood Joist/Truss												
Minimum R-Value Concrete Slab or Deck	12		13	12		13	12		13	12		13
Minimum R-Value	12		NA	12		NA	12		NA	12		NA
Slab Edge or Basement Walls		Insulation			Insulation			Insulation			Insulation	
Minimum R-Value		0			0			0			0	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Where values are shown for both cavity and continuous insulation, both requirements must be met.
- (c) Cavity insulation is insulation between framing members or furring strips and does not refer to integral insulation in CMUs.
- (d) Continuous insulation is insulation that is continuous across structural members, and its effectiveness is undimished by compression or bridging.
- (e) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (f) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>
- (g) For buildings over 3 stories in height, the maximum U-factor shall be 0.60.
- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## Climate Zone 9b

Envelope Component		Fenestration % Window-Wall			ım Fenestratio 25% Window-Wall			Fenestration			High Fenestrati %-50% Window-Wa	
	No .	Metal	Wood	No	Metal	Wood	No .	Metal	Wood	No .	Metal	Wood
Walls (a,b)	Framing o		or Framing		or Framing o	•	Framing o		or Framing	Framing		or Framing
Framed Minimum Cavity R-Value (c)	NA NA	11 0	11 0	NA NA	11 0	11	NA NA	13 0	11	NA NA	13 5	13 3
Any Spacing Minimum Continuous R-Value (d)  CMU, 8 in. or greater Minimum Cavity R-Value	NA NA	11	11	NA NA	11	0 11	NA NA	11	0 11	NA NA	11	11
with Integral Insulation(e) Minimum Continuous R-Value	5 5	0	0	5 5	0	0	5 5	0	0	5	0	0
All Other Minimum Cavity R-Value	NA NA	11	11	NA NA	11	11	NA NA	13	11	NA NA	13	11
Masonry Walls(f) Minimum Continuous R-Value	5	0	0	5	0	0	6	0	0	6	0	0
Windows	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection
Maximum Solar Heat Gain Coefficient	Any	Any	Any	0.5	0.6	0.7	0.4	0.5	0.6	0.3	0.4	0.5
Maximum U-Factor	Ally	Ally	Ally	0.0	0.0	0.7	0.4	0.0	0.0	0.0	0.4	0.5
	Any	Any	Any	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Skylight (Limit 3% of Roof Area)												
Maximum U-Factor		0.8			0.8			0.8			0.8	
	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity
Roof	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss Minimum R-Value	15		19	19		25	19		25	19		25
Nonwood Joist/Truss Minimum R-Value	16		19	20		25	20		25	20		25
Concrete Slab or Deck Minimum R-Value	15		NA	19		NA	19		NA	19		NA
Metal Purlin with Thermal Break												
Minimum R-Value	16		25	20		30	20		30	20		30
Metal Purlin without Thermal Break  Minimum R-Value	16		х	20		х	20		х	20		38
Floor	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation
All-Wood Joist/Truss												
Minimum R-Value Nonwood Joist/Truss	11		13	11		13	11		13	11		13
Minimum R-Value	12		13	12		13	12		13	12		13
Concrete Slab or Deck Minimum R-Value	12		NA	12		NA	12		NA	12		NA
Slab Edge or Basement Walls		Insulation			Insulation			Insulation	_		Insulation	
Minimum R-Value		0			0			0			0	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Where values are shown for both cavity and continuous insulation, both requirements must be met.
- (c) Cavity insulation is insulation between framing members or furring strips and does not refer to integral insulation in CMUs.
- (d) Continuous insulation is insulation that is continuous across structural members, and its effectiveness is undimished by compression or bridging.
- (e) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (f) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>
- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## Climate Zone 10a

Envelope Component		Fenestration % Window-Wall			m Fenestratio			Fenestration			High Fenestrati -50% Window-Wa	
Wells (s. I.)	No Framing o	Metal r Framing o	Wood or Framing	No Framing o	Metal or Framing o	Wood or Framing	No Framing o	Metal	Wood or Framing	No	Metal	Wood or Framing
Walls (a,b) Framed Minimum Cavity R-Value (c)	NA NA	11	or Framing 11	NA NA	11	11	NA NA	11	or Framing 11	NA	or Framing	or Framing 11
Any Spacing Minimum Continuous R-Value (d)	NA	0	0	NA	0	0	NA	0	0	NA	3	0
CMU, 8 in. or greater Minimum Cavity R-Value with Integral Insulation(e) Minimum Continuous R-Value	NA 0	0	0	NA 5	11 0	11 0	NA 5	11 0	11 0	NA 5	11 0	11 0
All Other Minimum Cavity R-Value	NA	11	11	NA	U	11	NA	U	11	NA	11	11
Masonry Walls(f) Minimum Continuous R-Value	5	0	0	5	0	0	5	0	0	5	0	0
	No	3.25	3.5	No	3.25	3.5	No	3.25	3.5 -	No	3.25	3.5
Windows  Maximum Solar Heat Gain Coefficient	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection
	Any	Any	Any	0.6	0.7	Any	0.5	0.6	0.7	0.5	0.6	0.7
Maximum U-Factor	Any	Any	Any	0.7	0.7	0.7	0.6	0.6	0.6	0.4	0.4	0.4
Skylight (Limit 3% of Roof Area)												
Maximum U-Factor		0.8			0.8			0.8			0.8	
	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity
Roof	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss Minimum R-Value	14		19	16		19	19		25	19		25
Nonwood Joist/Truss  Minimum R-Value	15		19	17		25	20		25	20		25
Concrete Slab or Deck Minimum R-Value	14		NA	16		NA	19		NA	19		NA
Metal Purlin with Thermal Break	17		IVA			NA.	- 13		NA.	- 13		NA.
Minimum R-Value	15		25	17		25	20		30	20		30
Metal Purlin without Thermal Break Minimum R-Value	15		х	17		х	20		х	20		30
	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity
Floor	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss  Minimum R-Value	13		19	13		19	13		19	13		19
Nonwood Joist/Truss Minimum R-Value	13		19	13		19	13		19	13		19
Concrete Slab or Deck			-						-			-
Minimum R-Value	13		NA	13		NA	13		NA	13		NA
Slab Edge or Basement Walls		Insulation			Insulation			Insulation			Insulation	
Minimum R-Value		0			0			0			0	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Where values are shown for both cavity and continuous insulation, both requirements must be met.
- (c) Cavity insulation is insulation between framing members or furring strips and does not refer to integral insulation in CMUs.
- (d) Continuous insulation is insulation that is continuous across structural members, and its effectiveness is undimished by compression or bridging.
- (e) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (f) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>
- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## Climate Zone 10b

Envelope Component	(0-10%	Fenestration Window-Wall			m Fenestratio 25% Window-Wal			Fenestration			High Fenestrat	
Malla (a)	No Framing or	Metal Framing	Wood or Framing	No Framing o	Metal or Framing o	Wood or Framing	No Framing o	Metal or Framing	Wood or Framing	No Framing	Metal or Framing	Wood or Framing
Walls (a)	_		_			_						
Framed Minimum R-Value Any Spacing	NA	11	11	NA	11	11	NA	11	11	NA	11	11
CMU, 8 in. or greater Minimum R-Value	5	11	11	5	11	11	5	11	11	5	11	11
with Integral Insulation(b)	Ů				••			•••			••	• •
All Other Minimum R-Value	5	11	11	5	11	11	5	11	11	5	11	11
Masonry Walls(c)												
		3.25	3.5	N	3.25	3.5		3.25	³.5		3.25	3.5
NAC'	No Projection	Projection	Projection	No Projection	Projection	Projection	No Projection	Projection	Projection	No Projection	Projection	Projection
Windows	Frojection	Frojection	Projection	Frojection	Frojection	Frojection	Frojection	Frojection	Frojection	Frojection	Frojection	Frojection
Maximum Solar Heat Gain Coefficient	Any	Any	Any	0.5	0.6	0.7	0.4	0.5	0.6	0.3	0.4	0.5
Maximum U-Factor	Any	Ally	Any	0.5	0.6	0.7	0.4	0.5	0.6	0.3	0.4	0.5
Waximum 6-1 actor	Any	Any	Any	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5
Skylight (Limit 3% of Roof Area)												
Maximum U-Factor		0.8			0.8			0.8			0.8	
				<u> </u>								
	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity
Roof	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss												
Minimum R-Value	17		19	19		25	19		25	19		25
Nonwood Joist/Truss Minimum R-Value	18		25	20		25	20		25	20		25
Concrete Slab or Deck	10		25	20		25	20		25	20		25
Minimum R-Value	17		NA	19		NA	19		NA	19		NA
Metal Purlin with Thermal Break							- 10					
Minimum R-Value	18		30	20		30	20		30	20		30
Metal Purlin without Thermal Break												
Minimum R-Value	18		Х	20		Х	20		Х	20		30
	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity
Floor	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss												
Minimum R-Value	12		19	12		19	12		19	12		19
Nonwood Joist/Truss												
Minimum R-Value	13		19	13		19	13		19	13		19
Concrete Slab or Deck												
Minimum R-Value	13		NA	13		NA	13		NA	13		NA
Slab Edge or Basement Walls		Insulation			Insulation			Insulation			Insulation	
Minimum R-Value		0			0			0			0	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (c) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.

- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## Climate Zone 11a

Envelope Component			Fenestration 6 Window-Wall			um Fenestratio			Fenestratior			High Fenestrat %-50% Window-Wa	
M/-II- /->		No Framing or	Metal r Framing	Wood or Framing	No Framing	Metal or Framing	Wood or Framing	No Framing o	Metal r Framing	Wood or Framing	No Framing	Metal or Framing	Wood or Framing
Walls (a) Framed	Minimum R-Value	Framing or NA	r Framing 11	or Framing	Praming NA	or Framing of	or Framing	Framing o	r Framing 11	or Framing	Praming NA	or Framing	or Framing
Any Spacing	Willimum K-Value	NA.	" "		NA		"	NA			NA.	13	
CMU, 8 in. or greater with Integral Insulation(b)	Minimum R-Value	5	11	11	5	11	11	5	11	11	5	11	11
All Other Masonry Walls(c)	Minimum R-Value	5	11	11	5	11	11	5	11	11	5	11	11
masoniy wans(c)													
Windows		No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection
Maximum Solar	Heat Gain Coefficient	Any	Any	Any	0.6	0.7	Any	0.5	0.6	0.7	0.5	0.6	0.7
	Maximum U-Factor	-			0.7	0.7	0.7	0.6	0.6	0.6	0.4	0.4	0.4
		Any	Any	Any	0.7	0.7	0.7	0.6	0.0	0.6	0.4	0.4	0.4
Skylight (Limit 3% of Roof Ar	·ea)												
	Maximum U-Factor		0.8			0.8			0.8			0.8	
		Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous	3	Roof Cavity
Roof		Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss	Minimum R-Value	14		19	16		19	19		25	19		25
Nonwood Joist/Truss	Minimum R-Value	15		19	17		25	20		25	20		25
Concrete Slab or Deck	Minimum R-Value	14		NA	16		NA	19		NA	19		NA
Metal Purlin with Thermal Break	Minimum R-Value	15		25	17		25	20		30	20		30
Metal Purlin without Thermal Break		13		25	- 17		23	20		30	20		30
	Minimum R-Value	15		Х	17		X	20		Х	20		30
Floor		Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation
All-Wood Joist/Truss	Minimum R-Value	14		19	14		19	14		19	14		19
Nonwood Joist/Truss	Minimum R-Value	14		19	14		19	14		19	14		19
Concrete Slab or Deck		14		NA	14		NA			NA	14		NA NA
	Minimum R-Value	14		NA	14		NA	14		NA	14		NA
Slab Edge or Basement Walls	s		Insulation			Insulation			Insulation			Insulation	
	Minimum R-Value		0			0			0			0	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (c) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.

- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## Climate Zone 11b

Envelope Component		Fenestration % Window-Wall			ım Fenestratio 25% Window-Wal			Fenestration			High Fenestrati 6-50% Window-Wa	
	No	Metal	Wood	No	Metal	Wood	No	Metal	Wood	No	Metal	Wood
Walls (a,b)	Framing o		or Framing			or Framing	Framing o	-	or Framing	Framing	•	or Framing
Framed Minimum Cavity R-Value (c)	NA	11	11	NA	11	11	NA	11	11	NA	13	11
Any Spacing Minimum Continuous R-Value (d) CMU, 8 in. or greater Minimum Cavity R-Value	NA NA	0 11	0 11	NA NA	0 11	0 11	NA NA	0 11	0 11	NA NA	3 11	0 11
with Integral Insulation(e) Minimum Continuous R-Value	5	0	0	5 5	0	0	5 NA	0	0	5 5	0	0
All Other Minimum Cavity R-Value	NA NA	11	11	NA NA	11	11	NA NA	11	11	NA.	11	11
Masonry Walls(f) Minimum Continuous R-Value	5	0	0	5	0	0	5	0	0	5	0	0
	No	3.25	3.5 D	No	3.25	3.5 D	No	3.25	3.5 5	No	3.25	3.5
Windows  Maximum Solar Heat Gain Coefficient	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection
	Any	Any	Any	0.5	0.6	0.7	0.4	0.5	0.6	0.3	0.4	0.5
Maximum U-Factor	Any	Any	Any	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5
Skylight (Limit 3% of Roof Area)												
Maximum U-Factor		0.8			0.8			0.8			0.8	
	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity
Roof	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss Minimum R-Value	18		25	19		25	23		30	23		30
Nonwood Joist/Truss												
Minimum R-Value Concrete Slab or Deck	19		25	20		25	24		30	24		30
Minimum R-Value	18		NA	19		NA	23		NA	23		NA
Metal Purlin with Thermal Break	.,											
Minimum R-Value	19		30	20		30	24		х	24		30
Metal Purlin without Thermal Break Minimum R-Value	19		х	20		х	24		х	24		38
	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity
Floor	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss Minimum R-Value	14		19	14		19	14		19	14		19
Nonwood Joist/Truss Minimum R-Value	15		19	15		19	15		19	15		19
Concrete Slab or Deck			-			-			-			-
Minimum R-Value	15		NA	15		NA	15		NA	15		NA
Slab Edge or Basement Walls		Insulation			Insulation			Insulation			Insulation	
Minimum R-Value		0			0			8			8	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Where values are shown for both cavity and continuous insulation, both requirements must be met.
- (c) Cavity insulation is insulation between framing members or furring strips and does not refer to integral insulation in CMUs.
- (d) Continuous insulation is insulation that is continuous across structural members, and its effectiveness is undimished by compression or bridging.
- (e) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (f) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>
- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## Climate Zone 12a

Envelope Component			Fenestration Window-Wall			um Fenestratio			Fenestration 0% Window-Wa			High Fenestrat %-50% Window-Wa	
M/-II- /->		No Framing or	Metal Framing	Wood or Framing	No Framing	Metal or Framing	Wood or Framing	No Framing o	Metal r Framing	Wood or Framing	No Framing	Metal or Framing	Wood or Framing
Walls (a) Framed	Minimum R-Value	Framing or NA	Framing 11	or Framing	Praming NA	or Framing of	or Framing	Framing o	r Framing 11	or Framing	Framing NA	or Framing	or Framing
Any Spacing	willimum K-value	NA.		''	NA.		"	NA	""		INA	13	
CMU, 8 in. or greater with Integral Insulation(b)	Minimum R-Value	5	11	11	5	11	11	5	11	11	5	11	11
All Other Masonry Walls(c)	Minimum R-Value	5	11	11	5	11	11	5	11	11	5	11	11
masoniy wans(c)													
Windows		No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection
Maximum Solar	Heat Gain Coefficient	Any	Any	Any	0.6	0.7	Any	0.5	0.6	0.7	0.4	0.5	0.7
	Maximum U-Factor	Ally	Ally	Ally	0.0	0.7	Ally	0.5	0.0	0.7	0.4	0.5	0.7
		Any	Any	Any	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4
Skylight (Limit 3% of Roof Ar	rea)												
	Maximum U-Factor		0.8			0.8			0.8			0.8	
		Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous	3	Roof Cavity
Roof		Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss	Minimum R-Value	16		19	19		25	23		30	23		30
Nonwood Joist/Truss	Minimum R-Value	17		25	20		25	24		30	24		30
Concrete Slab or Deck	Minimum R-Value	16		NA	19		NA	23		NA	23		NA
Metal Purlin with Thermal Break													
Metal Purlin without Thermal Break	Minimum R-Value	17		25	20		30	24		Х	24		30
metal i di ili without incinial brear	Minimum R-Value	17		Х	20		Х	24		Х	24		38
Floor		Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation
All-Wood Joist/Truss	Minimum R-Value	16		19	16		19	16		19	16		19
Nonwood Joist/Truss													
Concrete Slab or Deck	Minimum R-Value	16		19	16		19	16		19	16		19
	Minimum R-Value	16		NA	16		NA	16		NA	16		NA
Slab Edge or Basement Walls	S		Insulation			Insulation			Insulation			Insulation	
	Minimum R-Value		0			0			8			8	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (c) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.

- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## Climate Zone 12b

Envelope Component		Fenestration % Window-Wall			ım Fenestratio 25% Window-Wal			Fenestration			High Fenestrati 6-50% Window-Wa	
	No	Metal	Wood	No	Metal	Wood	No	Metal	Wood	No	Metal	Wood
Walls (a,b)	Framing o		or Framing			or Framing	Framing or	-	or Framing	Framing	•	or Framing
Framed Minimum Cavity R-Value (c)	NA	11	11	NA	11	11	NA	11	11	NA	13	13
Any Spacing Minimum Continuous R-Value (d)  CMU, 8 in. or greater Minimum Cavity R-Value	NA NA	0 11	0 11	NA NA	0 11	0 11	NA NA	0 11	0 11	NA NA	3 11	0 11
with Integral Insulation(e) Minimum Continuous R-Value	5	0	0	5	0	0	5 NA	0	0	5 5	0	0
All Other Minimum Cavity R-Value	NA NA	11	11	NA NA	11	11	NA NA	11	11	NA.	11	11
Masonry Walls(f) Minimum Continuous R-Value	5	0	0	5	0	0	5	0	0	5	0	0
	No	3.25	3.5	No	3.25	3.5 Deciration	No	3.25 Decidentian	3.5 Deciration	No	3.25	3.5 Deciseosis
Windows  Maximum Solar Heat Gain Coefficient	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection
	Any	Any	Any	0.5	0.6	0.7	0.4	0.5	0.6	0.3	0.4	0.5
Maximum U-Factor	Any	Any	Any	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5
Skylight (Limit 3% of Roof Area)												
Maximum U-Factor		0.8			0.8			0.8			0.8	
	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity
Roof	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss  Minimum R-Value	16		19	19		25	23		30	23		30
Nonwood Joist/Truss												
Minimum R-Value Concrete Slab or Deck	17		25	20		25	24		30	24		30
Minimum R-Value	16		NA	19		NA	23		NA	23		NA
Metal Purlin with Thermal Break												
Minimum R-Value	17		25	20		30	24		x	24		38
Metal Purlin without Thermal Break Minimum R-Value	17		х	20		х	24		х	24		49
	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity
Floor	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss Minimum R-Value	15		19	15		19	15		19	15		19
Nonwood Joist/Truss Minimum R-Value	16		19	16		19	16		19	16		19
Concrete Slab or Deck	-		-	-		-	-		-			-
Minimum R-Value	16		NA	16		NA	16		NA	16		NA
Slab Edge or Basement Walls		Insulation			Insulation			Insulation			Insulation	
Minimum R-Value		0			0			8			8	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Where values are shown for both cavity and continuous insulation, both requirements must be met.
- (c) Cavity insulation is insulation between framing members or furring strips and does not refer to integral insulation in CMUs.
- (d) Continuous insulation is insulation that is continuous across structural members, and its effectiveness is undimished by compression or bridging.
- (e) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (f) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>
- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## Climate Zone 13a

Envelope Component		Fenestratior Window-Wall			um Fenestratio			Fenestration			High Fenestrat %-50% Window-Wa		
M4-11- (-)		No Framing or	Metal Framing	Wood or Framing	No Framing	Metal or Framing	Wood or Framing	No Framing o	Metal or Framing	Wood or Framing	No Framing	Metal or Framing	Wood or Framing
Walls (a) Framed	Minimum R-Value	NA NA	13	or Framing	NA	13	or Framing 11	NA NA	13	or Framing	NA	or Framing	or Framing
Any Spacing		NA.		''	IVA	.0		IVA			, NA	10	••
CMU, 8 in. or greater with Integral Insulation(b)	Minimum R-Value	5	11	11	5	11	11	5	11	11	5	11	11
All Other	Minimum R-Value	5	11	11	5	11	11	5	11	11	5	11	11
Masonry Walls(c)													
Windows		No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	<sup>3</sup> .25 Projection	3.5 Projection
Maximum Solar	Heat Gain Coefficient	Any	Any	Any	0.6	0.7	Any	0.5	0.6	0.7	0.4	0.5	0.7
	Maximum U-Factor	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4
Skylight (Limit 3% of Roof Are	22)												
Skylight (Ellille 3 /6 OF ROOF ARE	Maximum U-Factor		0.8			0.8			0.8			0.8	
		Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity
Roof		Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss	Minimum R-Value	14		19	19		25	23		30	23		30
Nonwood Joist/Truss	Minimum R-Value	15		19	20		25	24		30	24		30
Concrete Slab or Deck	Minimum R-Value	14		NA	19		NA	23		NA	23		NA
Metal Purlin with Thermal Break													
Metal Purlin without Thermal Break	Minimum R-Value	15		25	20		30	24		Х	24		30
metal i aliii wallout iliciliai Break	Minimum R-Value	15		Х	20		Х	24		Х	24		38
Floor		Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation
All-Wood Joist/Truss	Minimum R-Value	16		19	16		19	16		19	16		19
Nonwood Joist/Truss	Minimum R-Value	17		25	17		25	17		25	17		25
Concrete Slab or Deck	Minimum R-Value	17		NA	17		NA	17		NA	17		NA
				NA			INE			19/5			INA
Slab Edge or Basement Walls	;		Insulation			Insulation			Insulation			Insulation	
	Minimum R-Value		0			0			8			8	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (c) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.

- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## Climate Zone 13b

Envelope Component		Fenestration % Window-Wall			ım Fenestratio 25% Window-Wall			Fenestration 0% Window-Wal		Very High Fenestration Area (40%-50% Window-Wall Ratio)			
	No .	Metal	Wood	No .	Metal	Wood	No .	Metal	Wood	No .	Metal	Wood	
Walls (a,b)	Framing o		or Framing		or Framing o	•	Framing o	•	or Framing	Framing		or Framing	
Framed Minimum Cavity R-Value (c)	NA NA	13 0	11 0	NA NA	13 0	11	NA NA	13 0	11	NA NA	13 7	13	
Any Spacing Minimum Continuous R-Value (d)  CMU, 8 in. or greater Minimum Cavity R-Value	NA NA	11	11	NA NA	11	0 11	NA NA	11	0 11	NA NA		3 11	
with Integral Insulation(e) Minimum Continuous R-Value	5 5	0	0	5 5	0	0	5 5	0	0	5	0	0	
All Other Minimum Cavity R-Value	NA NA	11	11	NA NA	11	11	NA NA	11	11	NA NA	11	11	
Masonry Walls(f) Minimum Continuous R-Value	5	0	0	5	0	0	5	0	0	5	0	0	
Windows	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	
Maximum Solar Heat Gain Coefficient		•	,		•	,			,	-			
Maximum U-Factor	Any	Any	Any	0.5	0.6	0.7	0.4	0.5	0.6	0.4	0.5	0.6	
Maximum 0-1 actor	Any	Any	Any	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	
Skylight (Limit 3% of Roof Area)													
Maximum U-Factor		0.8			0.8			0.8			0.8		
	0		Df Oit	0		Dark Carrier	0		Da of Consider	0		Da of Coultry	
Roof	Continuous Insulation	or	Roof Cavity Insulation	Continuous Insulation	or	Roof Cavity Insulation	Continuous Insulation	or	Roof Cavity Insulation	Continuous Insulation	or	Roof Cavity Insulation	
All-Wood Joist/Truss  Minimum R-Value	18		25	19		25	23		30	23		30	
Nonwood Joist/Truss Minimum R-Value	19		25	20		25	24		30	24		30	
Concrete Slab or Deck Minimum R-Value	18		NA	19		NA	23		NA	23		NA	
Metal Purlin with Thermal Break													
Minimum R-Value  Metal Purlin without Thermal Break	19		30	20		30	24		Х	24		38	
Minimum R-Value	19		х	20		х	24		х	24		49	
Floor	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	
All-Wood Joist/Truss Minimum R-Value	17		19	17		19	17		19	17		19	
Nonwood Joist/Truss	<u>'</u>			<u> </u>			<u> </u>			· · ·			
Minimum R-Value Concrete Slab or Deck	17		25	17		25	17		25	17		25	
Minimum R-Value	17		NA	17		NA	17		NA	17		NA	
Slab Edge or Basement Walls	Insulation			Insulation				Insulation		Insulation			
Minimum R-Value		0			0			8			8		

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Where values are shown for both cavity and continuous insulation, both requirements must be met.
- (c) Cavity insulation is insulation between framing members or furring strips and does not refer to integral insulation in CMUs.
- (d) Continuous insulation is insulation that is continuous across structural members, and its effectiveness is undimished by compression or bridging.
- (e) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (f) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>
- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## Climate Zone 14a

Envelope Component		Fenestration % Window-Wall			m Fenestratio			Fenestration		Very High Fenestration Area (40%-50% Window-Wall Ratio)			
Melle (- L)	No Framing o	Metal r Framing	Wood or Framing	No Framing o	Metal or Framing o	Wood or Framing	No Framing o	Metal	Wood or Framing	No	Metal	Wood or Framing	
Walls (a,b) Framed Minimum Cavity R-Value (c)	NA NA	13	or Framing 11	NA NA	13	11	NA NA	13	or Framing 11	NA	13	or Framing 11	
Any Spacing Minimum Continuous R-Value (d)	NA	3	0	NA	3	0	NA	3	0	NA	3	0	
CMU, 8 in. or greater Minimum Cavity R-Value with Integral Insulation(e) Minimum Continuous R-Value	NA 5	11 0	11 0	NA 5	11 0	11 0	NA 5	11 0	11 0	NA 5	11 0	11 0	
All Other Minimum Cavity R-Value	NA	U	11	NA	U	11	NA	U 	11	NA	11	11	
Masonry Walls(f) Minimum Continuous R-Value	5	0	0	5	0	0	5	0	0	5	0	0	
	No	3.25	3.5	No	3.25	3.5	No	3.25	3.5	No	3.25	3.5	
Windows  Maximum Solar Heat Gain Coefficient	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	Projection	
	Any	Any	Any	0.5	0.6	0.7	0.4	0.5	0.6	0.4	0.5	0.6	
Maximum U-Factor	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	
Skylight (Limit 3% of Roof Area)													
Maximum U-Factor		0.8			0.8			0.8			0.8		
	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity	
Roof	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	
All-Wood Joist/Truss Minimum R-Value	17		19	19		25	23		30	23		30	
Nonwood Joist/Truss  Minimum R-Value	18		25	20		25	24		30	24		30	
Concrete Slab or Deck  Minimum R-Value	17		NA	19		NA	23		NA	23		NA	
Metal Purlin with Thermal Break													
Minimum R-Value Metal Purlin without Thermal Break	18		30	20		30	24		Х	24		38	
Minimum R-Value	18		х	20		х	24		х	24		38	
	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity	Continuous		Cavity	
Floor	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	
All-Wood Joist/Truss Minimum R-Value	18		25	18		25	18		25	18		25	
Nonwood Joist/Truss Minimum R-Value	19		25	19		25	19		25	19		25	
Concrete Slab or Deck			NA NA				-		NA NA			-	
Minimum R-Value	19		NA	19		NA	19		NA	19		NA	
Slab Edge or Basement Walls	Insulation			Insulation				Insulation		Insulation			
Minimum R-Value		0			8			8			8		

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Where values are shown for both cavity and continuous insulation, both requirements must be met.
- (c) Cavity insulation is insulation between framing members or furring strips and does not refer to integral insulation in CMUs.
- (d) Continuous insulation is insulation that is continuous across structural members, and its effectiveness is undimished by compression or bridging.
- (e) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (f) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>
- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## Climate Zone 14b

Envelope Component		Fenestration % Window-Wall			ım Fenestratio 25% Window-Wall			Fenestration 0% Window-Wal		Very High Fenestration Area (40%-50% Window-Wall Ratio)			
	No .	Metal	Wood	No .	Metal	Wood	No .	Metal	Wood	No .	Metal	Wood	
Walls (a,b)	Framing o		or Framing		or Framing o	•	Framing o	•	or Framing	Framing		or Framing	
Framed Minimum Cavity R-Value (c)	NA NA	13	11 0	NA NA	13 3	11	NA NA	13 3	11	NA NA	13 7	13	
Any Spacing Minimum Continuous R-Value (d)  CMU, 8 in. or greater Minimum Cavity R-Value	NA NA	<u>3</u> 11	11	NA NA	<u> </u>	0 11	NA NA	<u> </u>	0 11	NA NA	11	3 11	
with Integral Insulation(e) Minimum Continuous R-Value	5 5	0	0	5	0	0	5 5	0	0	5	0	0	
All Other Minimum Cavity R-Value	NA NA	11	11	NA NA	11	11	NA NA	11	11	NA NA	11	11	
Masonry Walls(f) Minimum Continuous R-Value	5	0	0	5	0	0	5	0	0	5	0	0	
Windows	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	
Maximum Solar Heat Gain Coefficient	Trojection	rrojection	1 TOJECTION	Trojection	Trojection	riojection	Trojection	Trojection	rrojection	Trojection	Појесноп	Trojection	
	Any	Any	Any	0.5	0.6	0.7	0.4	0.5	0.6	0.4	0.5	0.6	
Maximum U-Factor	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	
Skylight (Limit 3% of Roof Area)													
Maximum U-Factor		0.8			0.8			0.8			0.8		
	Continuous		Dood Consider	O-mtimus		Dark Carrier	0		Do of Consider	0		Da of Coultry	
Roof	Continuous Insulation	or	Roof Cavity Insulation	Continuous Insulation	or	Roof Cavity Insulation	Continuous Insulation	or	Roof Cavity Insulation	Continuous Insulation	or	Roof Cavity Insulation	
All-Wood Joist/Truss  Minimum R-Value	19		25	19		25	23		30	23		30	
Nonwood Joist/Truss Minimum R-Value	20		25	20		25	24		30	24		30	
Concrete Slab or Deck Minimum R-Value	19		NA	19		NA	23		NA	23		NA	
Metal Purlin with Thermal Break													
Minimum R-Value  Metal Purlin without Thermal Break	20		30	20		30	24		Х	24		38	
Minimum R-Value	20		Х	20		Х	24		Х	24		49	
Floor	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	
All-Wood Joist/Truss Minimum R-Value	19		25	19		25	19		25	19		25	
Nonwood Joist/Truss	- 13		20			20			20	,		20	
Minimum R-Value Concrete Slab or Deck	19		25	19		25	19		25	19		25	
Concrete Slab of Deck  Minimum R-Value	19		NA	19		NA	19		NA	19		NA	
Slab Edge or Basement Walls	Insulation			Insulation				Insulation		Insulation			
Minimum R-Value		0			8			8			8		

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Where values are shown for both cavity and continuous insulation, both requirements must be met.
- (c) Cavity insulation is insulation between framing members or furring strips and does not refer to integral insulation in CMUs.
- (d) Continuous insulation is insulation that is continuous across structural members, and its effectiveness is undimished by compression or bridging.
- (e) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (f) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>
- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## **Climate Zone 15**

Envelope Component		Medium Fenestration Area High Fenestration Area (10%-25% Window-Wall Ratio) (25%-40% Window-Wall Ratio)					Very High Fenestration Area (40%-50% Window-Wall Ratio)					
	No	% Window-Wall Metal	Wood	No	Metal	Wood	No	Metal	Wood	No	Metal	Wood
Walls (a,b)	Framing o		or Framing			or Framing	Framing of	•	or Framing	Framing	•	or Framing
Framed Minimum Cavity R-Value (c)	NA	13	11 0	NA	13	11	NA NA	13	11	NA	13	13
Any Spacing Minimum Continuous R-Value (d) CMU, 8 in. or greater Minimum Cavity R-Value	NA NA	<u>3</u> 11	11	NA NA	3 11	0 11	NA NA	3 11	0 11	NA NA	7 13	4 11
with Integral Insulation(e) Minimum Continuous R-Value	5	0	0	5	0	0	5	0	0	5	0	0
All Other Minimum Cavity R-Value	NA NA	11	11	NA NA	11	11	NA NA	13	11	NA	13	11
Masonry Walls(f) Minimum Continuous R-Value	5	0	0	5	0	0	6	0	0	6	3	0
Windows	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection
Maximum Solar Heat Gain Coefficient		-	,		•		•	,	,		•	
Maximum U-Factor	Any	Any	Any	0.5	0.6	0.7	0.5	0.6	0.7	0.4	0.5	0.7
Maximum O-Pactor	0.7	0.7	0.7	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4
Skylight (Limit 3% of Roof Area)												
Maximum U-Factor		0.6			0.6			0.6			0.6	
	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity
Roof	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss  Minimum R-Value	19		25	19		25	23		30	23		30
Nonwood Joist/Truss												
Minimum R-Value	20		25	20		25	24		30	24		30
Concrete Slab or Deck Minimum R-Value	19		NA	19		NA	23		NA	23		NA
Metal Purlin with Thermal Break	19		NA .	19		NA	23		NA .	23		NA
Minimum R-Value	20		30	20		30	24		x	24		38
Metal Purlin without Thermal Break Minimum R-Value	20		х	20		х	24		х	24		NA
within the value	-						-					
Floor	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation
All-Wood Joist/Truss Minimum R-Value	22		25	22		25	22		25	22		25
Nonwood Joist/Truss			20			20			20			
Minimum R-Value Concrete Slab or Deck	23		30	23		30	23		30	23		30
Concrete Slab or Deck Minimum R-Value	22		NA	22		NA	22		NA	22		NA
Slab Edge or Basement Walls		Insulation		Insulation				Insulation		Insulation		
Minimum R-Value		0			8			8			8	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Where values are shown for both cavity and continuous insulation, both requirements must be met.
- (c) Cavity insulation is insulation between framing members or furring strips and does not refer to integral insulation in CMUs.
- (d) Continuous insulation is insulation that is continuous across structural members, and its effectiveness is undimished by compression or bridging.
- (e) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (f) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>
- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## **Climate Zone 16**

Envelope Component		Fenestratior % Window-Wall			m Fenestratio 25% Window-Wall			Fenestration 0% Window-Wa			High Fenestrati 6-50% Window-Wa	
	No	Metal	Wood	No	Metal	Wood	No Fi	Metal	Wood	No	Metal	Wood
Walls (a,b)	Framing o	•	or Framing		or Framing o	•	Framing o		or Framing	Framing		or Framing
Framed Minimum Cavity R-Value (c) Any Spacing Minimum Continuous R-Value (d)	NA NA	13 3	11 0	NA NA	13 3	11 0	NA NA	13 3	13 0	NA NA	13 14	13 7
CMU, 8 in. or greater Minimum Cavity R-Value	NA NA		11	NA NA	<u>3</u> 11	11	NA NA	13	11	NA NA	13	13
with Integral Insulation(e) Minimum Continuous R-Value	5	0	0	5	0	0	6	0	0	10	3	0
All Other Minimum Cavity R-Value	NA NA	11	11	NA NA	13	11	NA NA	13	13	NA.	13	13
Masonry Walls(f) Minimum Continuous R-Value	5	0	0	9	3	0	9	3	0	9	3	3
Windows	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection
Maximum Solar Heat Gain Coefficient		•	,	-	,	,	-				,	
Marian and U.S. atta	0.7	Any	Any	0.7	Any	Any	0.5	0.6	0.7	0.4	0.5	0.7
Maximum U-Factor	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4
Skylight (Limit 3% of Roof Area)												
Maximum U-Factor		0.6			0.6			0.6			0.6	
	0		D (	0		Dark Carrier	0		De et Cevite	0		Da of Coultry
Roof	Continuous Insulation	or	Roof Cavity Insulation	Continuous Insulation	or	Roof Cavity Insulation	Continuous Insulation	or	Roof Cavity Insulation	Continuous Insulation	or	Roof Cavity Insulation
All-Wood Joist/Truss Minimum R-Value	19		25	23		30	23		30	23		30
Nonwood Joist/Truss Minimum R-Value	20		25	24		30	24		30	24		30
Concrete Slab or Deck Minimum R-Value	19		NA	23		NA	23		NA	23		NA
Metal Purlin with Thermal Break												
Minimum R-Value Metal Purlin without Thermal Break	20		30	24		Х	24		Х	24		38
Minimum R-Value	20		х	24		х	24		х	24		NA
Floor	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation
All-Wood Joist/Truss Minimum R-Value	22		25	22		25	22		25	22		25
Nonwood Joist/Truss												
Minimum R-Value Concrete Slab or Deck	23		30	23		30	23		30	23		30
Minimum R-Value	22		NA	22		NA	22		NA	22		NA
Slab Edge or Basement Walls	Insulation			Insulation				Insulation		Insulation		
Minimum R-Value		8			8			8			8	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Where values are shown for both cavity and continuous insulation, both requirements must be met.
- (c) Cavity insulation is insulation between framing members or furring strips and does not refer to integral insulation in CMUs.
- (d) Continuous insulation is insulation that is continuous across structural members, and its effectiveness is undimished by compression or bridging.
- (e) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (f) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>
- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## **Climate Zone 17**

Envelope Component		Fenestration % Window-Wall			ım Fenestratio 25% Window-Wall			Fenestration 0% Window-Wa			High Fenestrat 6-50% Window-Wa	
	No	Metal	Wood	No	Metal	Wood	No	Metal	Wood	No	Metal	Wood
Walls (a,b)	Framing o	-	or Framing		or Framing o	-	Framing o		or Framing	Framing	•	or Framing
Framed Minimum Cavity R-Value (c) Any Spacing Minimum Continuous R-Value (d)	NA NA	13 3	13 0	NA NA	13 3	13 0	NA NA	13 4	13 3	NA NA	13 14	13 14
CMU, 8 in. or greater Minimum Cavity R-Value	NA NA	13	11	NA NA	3 13	11	NA NA	13	13	NA NA	13	13
with Integral Insulation(e) Minimum Continuous R-Value	6	0	0	6	0	0	10	4	3	14	10	7
All Other Minimum Cavity R-Value	NA NA	13	11	NA NA	13	13	NA.	13	13	NA.	13	13
Masonry Walls(f) Minimum Continuous R-Value	6	0	0	9	3	0	10	4	3	14	10	7
Windows	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection	No Projection	3.25 Projection	3.5 Projection
Maximum Solar Heat Gain Coefficient	0.7	Any	Any	0.7	Any	Any	0.7(g)	Any(g)	Any(g)	0.4	0.5	0.7
Maximum U-Factor	0.7	Ally	Ally	0.7	Ally	Ally	0.7(g)	Ally(g)	Ally(g)	0.4	0.3	0.7
maximam c r deter	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Skylight (Limit 3% of Roof Area)												
Maximum U-Factor		0.6			0.6			0.6			0.6	
	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity	Continuous		Roof Cavity
Roof	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation	Insulation	or	Insulation
All-Wood Joist/Truss Minimum R-Value	23		30	23		30	23		30	23		30
Nonwood Joist/Truss Minimum R-Value	24		30	24		30	24		30	24		30
Concrete Slab or Deck Minimum R-Value	23		NA	23		NA	23		NA	23		NA
Metal Purlin with Thermal Break	24		v	04		v	0.4		v	0.4		20
Minimum R-Value Metal Purlin without Thermal Break	24		Х	24		Х	24		Х	24		38
Minimum R-Value	24		х	24		X	24		х	24		NA
Floor	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation	Continuous Insulation	or	Cavity Insulation
All-Wood Joist/Truss Minimum R-Value	22		25	22		25	22		25	22		25
Nonwood Joist/Truss			23			23			23			25
Minimum R-Value Concrete Slab or Deck	23		30	23		30	23		30	23		30
Minimum R-Value	22		NA	22		NA	22		NA	22		NA
Slab Edge or Basement Walls	Insulation			Insulation				Insulation		Insulation		
Minimum R-Value		8			8			8			8	

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Where values are shown for both cavity and continuous insulation, both requirements must be met.
- (c) Cavity insulation is insulation between framing members or furring strips and does not refer to integral insulation in CMUs.
- (d) Continuous insulation is insulation that is continuous across structural members, and its effectiveness is undimished by compression or bridging.
- (e) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (f) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>
- (g) For buildings over 3 stories in height, the maximum SHGC shall be 0.60.
- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## **Climate Zone 18**

Envelope Component		Fenestration % Window-Wall			ım Fenestratio 25% Window-Wal		High Fenestration Area (26%-40% Window-Wall Ratio)	Very High Fenestration Area (40%-50% Window-Wall Ratio)
	No	Metal	Wood	No	Metal	Wood		
Walls (a,b)	Framing o		or Framing			or Framing		
Framed Minimum Cavity R-Value (c)	NA	13	13	NA	13	13		
Any Spacing Minimum Continuous R-Value (d)  CMU, 8 in. or greater Minimum Cavity R-Value	NA NA	4 13	3	NA NA	13	3 13		
			13	NA 0				
with Integral Insulation(e) Minimum Continuous R-Value All Other Minimum Cavity R-Value	9 NA	3 13	3 13	9 NA	3 13	3 13		
Masonry Walls(f) Minimum Continuous R-Value	10	13 4	3	10	13	3	No Prescriptive Package	No Prescriptive Package
masoniy wans(i)				10			For High Fenestration Area	For very High Fenestration Area
	No	3.25	<sup>3</sup> .5	No	3.25	3.5		
Windows	Projection	Projection	Projection	Projection	Projection	Projection		
Maximum Solar Heat Gain Coefficient								
	0.7	Any	Any	0.7	Any	Any		
Maximum U-Factor								
	0.6	0.6	0.6	0.4	0.4	0.4		
Skylight (Limit 3% of Roof Area)								
, , ,								
Maximum U-Factor		0.6			0.6			
				-				
	Continuous		Roof Cavity	Continuous		Roof Cavity		
Roof	Insulation	or	Insulation	Insulation	or	Insulation		
All-Wood Joist/Truss								
Minimum R-Value	23		30	23		30		
Nonwood Joist/Truss  Minimum R-Value	24		30	24		30		
Concrete Slab or Deck	24		30	24		30		
Minimum R-Value	23		NA	23		NA		
Metal Purlin with Thermal Break	- 20		NA.			NA.		
Minimum R-Value	24		х	24		х		
Metal Purlin without Thermal Break								
Minimum R-Value	24		Х	24		Х		
	Continuous		Cavity	Continuous		Cavity		
Floor	Insulation	or	Insulation	Insulation	or	Insulation		
All-Wood Joist/Truss	modiation	Oi.	modution	modiation	OI .	modiation		
Minimum R-Value	22		25	22		25		
Nonwood Joist/Truss			23	- 22		23		
Minimum R-Value	23		30	23		30		
Concrete Slab or Deck								
Minimum R-Value	22		NA	22		NA		
Slah Edge av Basement Walle		Insulation			Insulation			
Slab Edge or Basement Walls		irisulation			IIISUIALIUII			
Minimum R-Value		12			12			
Minimum R-Value		12			12			

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Where values are shown for both cavity and continuous insulation, both requirements must be met.
- (c) Cavity insulation is insulation between framing members or furring strips and does not refer to integral insulation in CMUs.
- (d) Continuous insulation is insulation that is continuous across structural members, and its effectiveness is undimished by compression or bridging.
- (e) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (f) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>
- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

## **Climate Zone 19**

Envelope Component		Fenestration 6 Window-Wall			ım Fenestratio 25% Window-Wal		High Fenestration Area (26%-40% Window-Wall Ratio)	Very High Fenestration Area (40%-50% Window-Wall Ratio)
	No	Metal	Wood	No	Metal	Wood		
Walls (a,b)	Framing o		or Framing			or Framing		
Framed Minimum Cavity R-Value (c)	NA	13	13	NA	13	13		
Any Spacing Minimum Continuous R-Value (d)  CMU, 8 in. or greater Minimum Cavity R-Value	NA NA	13	3	NA NA	13	3 13		
			13	NA 0				
with Integral Insulation(e) Minimum Continuous R-Value All Other Minimum Cavity R-Value	9 NA	3 13	3 13	9 NA	3 13	3 13		
Masonry Walls(f) Minimum Continuous R-Value	10	4	3	10	13	3	No Prescriptive Package	No Prescriptive Package
Mason y Wans(i)				10			For High Fenestration Area	For Very High Fenestration Area
	No	3.25	<sup>3</sup> .5	No	3.25	<b>3</b> .5		
Windows	Projection	Projection	Projection	Projection	Projection	Projection		
Maximum Solar Heat Gain Coefficient								
	0.7	Any	Any	0.7	Any	Any		
Maximum U-Factor								
	0.5	0.5	0.5	0.4	0.4	0.4		
Skylight (Limit 3% of Roof Area)								
, , ,								
Maximum U-Factor		0.6			0.6			
	<u> </u>							
	Continuous		Roof Cavity	Continuous		Roof Cavity		
Roof	Insulation	or	Insulation	Insulation	or	Insulation		
All-Wood Joist/Truss								
Minimum R-Value	23		30	23		30		
Nonwood Joist/Truss								
Minimum R-Value	24		30	24		30		
Concrete Slab or Deck								
Minimum R-Value Metal Purlin with Thermal Break	23		NA	23		NA		
Minimum R-Value	24		x	24		x		
Metal Purlin without Thermal Break			^	27		^		
Minimum R-Value	24		x	24		x		
				-				
	Continuous		Cavity	Continuous		Cavity		
Floor	Insulation	or	Insulation	Insulation	or	Insulation		
All-Wood Joist/Truss								
Minimum R-Value	22		25	22		25		
Nonwood Joist/Truss			20	00		20		
Minimum R-Value Concrete Slab or Deck	23		30	23		30		
Minimum R-Value	22		NA	22		NA		
IVIII III III II IVIII III III II II II			116			IIA		
Slab Edge or Basement Walls		Insulation			Insulation			
Minimum R-Value		12			12			

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
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